What Is Claimed Is:

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1. A simulated steering feel system comprising:

a servo disk motor, said servo disk motor capable of imparting feedback torque to an input device.

- A simulated steering feel system as described in claim 1 further comprising a steering feel control processor.
- 3. A simulated steering feel system as 10 described in claim 1 further comprising at least one vehicle dynamic sensor.
 - 4. A simulated steering feel system as described in claim 1 further comprising:
- a torque multiplier, said torque multiplier

 15 utilized to magnify torque generated by said servo disk

 motor.
 - 5. A simulated steering feel system as described in claim 4 wherein said torque multiplier is a gear reducer.
- 6. A simulated steering feel system as described in claim 1 wherein said input device is a steering wheel.
- 7. A simulated steering feel system as described in claim 1 further comprising a steering wheel sensor element.
 - 8. A simulated steering feel system as described in claim 1 for use in a driving simulator.



- 9. A simulated steering feel system as described in claim 1 for use in an entertainment device.
- 10. A simulated steering feel system as 5 described in claim 1 for use in an automobile in conjunction with a steer by wire system.
 - 11. A simulated steering feel system as described in claim 1 further comprising:
- a motor driver element, said motor driver 10 element utilized to operate said servo disk motor.
 - 12. A simulated steering feel system comprising:
 - a servo disk motor; and
- a torque multiplier, said torque multiplier

 15 used in conjunction with said servo disk motor to

 impart road feel to a steering wheel.
 - 13. A simulated steering feel system as described in claim 12 wherein said torque multiplier is a gear reducer.
- 20 14. A simulated steering feel system as described in claim 12 further comprising:
 - a steering feel control processor.
 - 15. A simulated steering feel system as described in claim 12 further comprising:
- at least one vehicle dynamic sensor.
 - 16. A simulated steering feel system as described in claim 12 further comprising a steering wheel sensor element.
- 17. A simulated steering feel system as 30 described in claim 12 further comprising:

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a motor driver element, said motor driver element utilized to operate said servo disk motor.

- 18. A simulated steering feel system as described in claim 12 for use in a driving simulator.
- 5 19. A simulated steering feel system as described in claim 12 for use in an entertainment device.
 - 20. A simulated steering feel system as described in claim 12 for use in an automobile in conjunction with a steer by wire system.
 - 21. A method of creating simulated steering feel comprising:

determining an appropriate feedback torque;
and

- transmitting said feedback torque towards the steering wheel using a servo disk motor.
 - 22. A method of creating simulated steering feel as described in claim 21 wherein determining appropriate feedback torque comprises the steps of measuring vehicle dynamics characteristics; and

imputing an appropriate feedback torque using said vehicle dynamic characteristics.

23. A method of simulating steering feel as described in claim 21 further comprising the step of increasing the output of said servo disk motor using a gear reducer.